



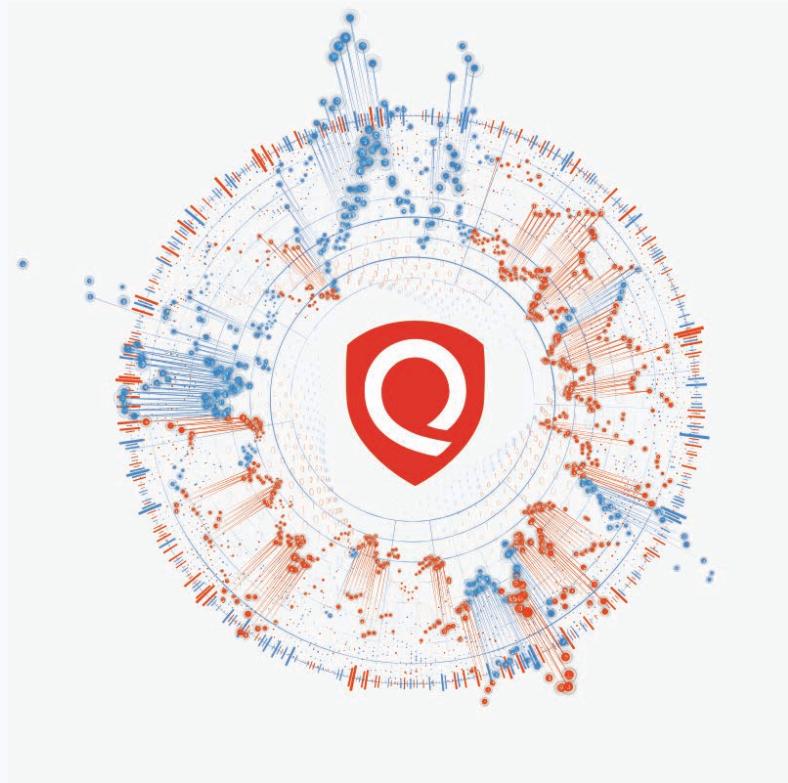
QUALYS SECURITY CONFERENCE 2020

# Building an Always Up-to-Date, Real-Time View of Your Global IT Assets in the Hybrid IT Environment

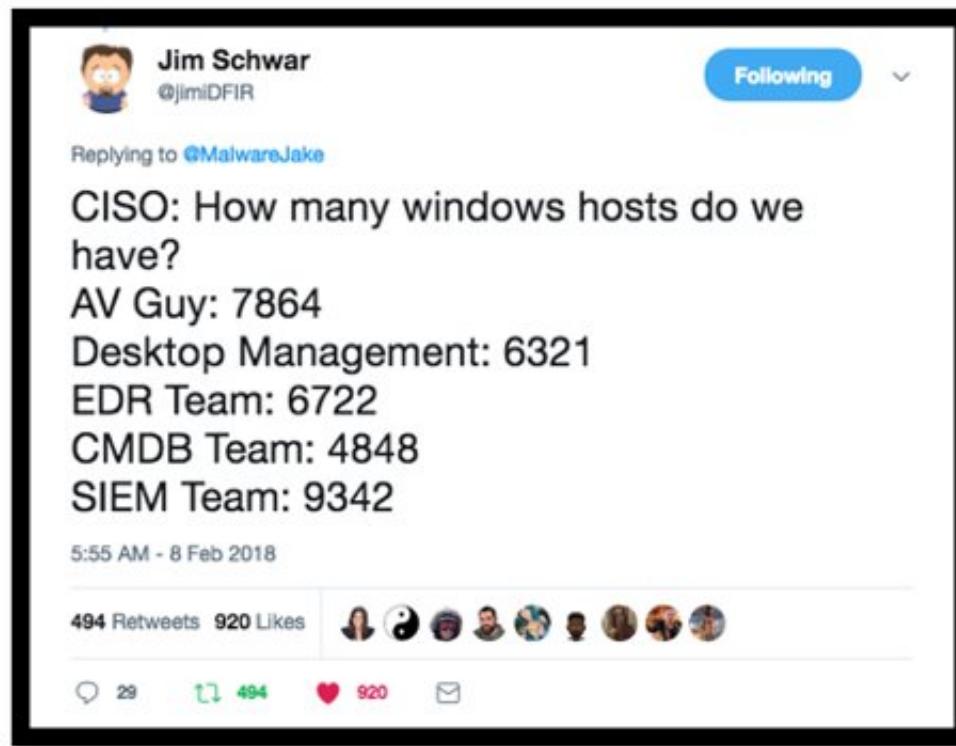
Chris Carlson  
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# Starting Point...

Knowing what's on your  
Global Hybrid IT  
environment is  
fundamental to security



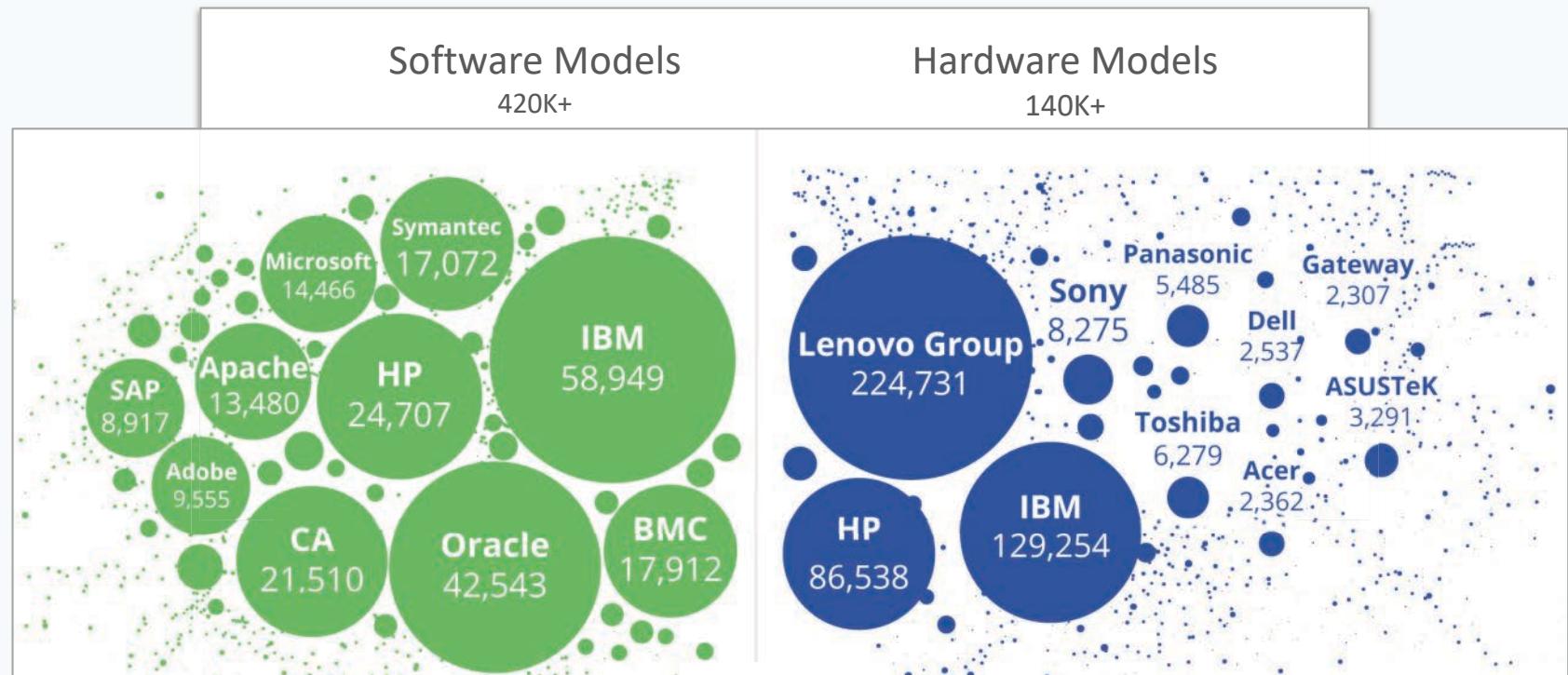
# Not an Easy Problem to Solve



- Cloud Agent
- Passive Sensor
- Network Scanner
- Cloud Connectors



# Asset Inventory Catalog



	<b>Hardware</b>	<b>Operating System</b>	<b>Software</b>
Raw Data	Dell R510	Base OS Runtime AIX: 06.01.0009.0300 EE	mysql-community-server 5.6.35-2.el7.x86_64

## Vulnerabilities BETA

52.1K

Total Detections

## SEVERITY

4	25.6K
5	15.0K
3	9.78K
2	1.53K
1	221

## CATEGORY

Windows	29.8K
Local	9.46K
Internet Explorer	8.31K
Office Application	1.28K
Security Policy	956
SUSE	741
CentOS	712
Fedora	314
Web server	154

Asset

X operatingSystem.category:Server and software:(category:Database)



Asset

Vulnerability

Group By: Vulnerability

Filters

1 - 50 of 4365



QID	TITLE	CVE IDS	SEVERITY	VULNERABILITY COUNT
91495	Microsoft Windows Security Update January 2019	CVE-2019-0571 CVE-2019-0570 <a href="#">24 more...</a>		109
91504	Microsoft Windows Security Update February 2019	CVE-2019-0595 CVE-2019-0597 <a href="#">30 more...</a>		109
91488	Microsoft Windows Security Update December 2018	CVE-2018-8649 CVE-2018-8638 <a href="#">14 more...</a>		107
91481	Microsoft Windows Security Update November 2018	CVE-2018-8407 CVE-2018-8408 <a href="#">21 more...</a>		107
91470	Microsoft Windows FragmentSmack Denial of Service Vuln...	CVE-2018-5391		105
100131	Microsoft Internet Explorer Mouse Tracking Events Design ...	-		105

# Auto-Tagging using Catalog Attributes

Asset Inventory catalog attributes are extended to the tagging rule engine

Auto-Tagging rules uses QQL syntax (no groovy!)

Use catalog auto-tags to solve the “OR” reporting problem

The screenshot shows the 'Tag Edit: Database Server' interface. On the left, a sidebar titled 'Edit Mode' lists 'Tag details', 'Tag Rule' (which is selected and highlighted in blue), and 'Action Log'. The main panel is titled 'Set the tag type and rules' and contains a 'Rule Engine' section. Under 'Rule Engine', 'Asset Inventory' is selected from a dropdown menu. A checkbox 'Re-evaluate rule on save' is checked. Below this is a 'Query' section containing the QQL code: '(hardware.category2: "Server" or operatingSystem.category2: "Server") and software.category1: "Databases"'. At the bottom, there is a 'Test Rule Applicability on Selected Assets' section with a dropdown menu labeled 'Add Asset: Select an asset'.

# Eliminate Asset Blind Spots for your Security Program

Passive Sensor (included in VMDR) discovers assets in real time and provides context of how these devices communicate

Immediate visibility of unknown unmanaged devices between VM scan windows

VMDR adds new workflows

- auto-tag unmanaged assets
- activate for VM scanning
- trigger 3<sup>rd</sup> party install of Cloud Agent

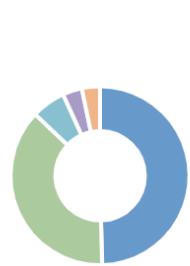


## Unmanaged Assets

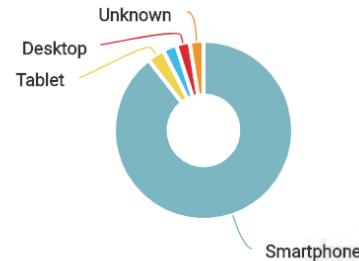
Last 30 Days ▾



### UNMANAGED (PASSIVE SCANNING)



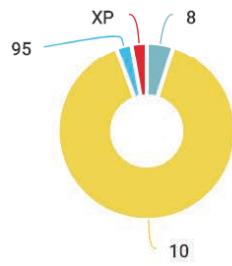
### UNMANAGED ASSET CATEGORY



### NEW DISCOVERIES IN LAST 4 HOURS

1

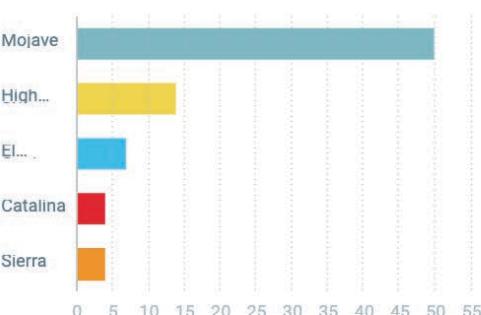
### WINDOWS OS



### USERS WITH UNMANAGED ASSETS

ACCOUNT USERS	COUNT
spabbuleti/CORP	2
spabbuleti/CORP.QUALYS.COM	2
adhumale/CORP	1
adhumale/CORP.QUALYS.COM	1
adhumale/corp.qualys.com	1
dgao/CORP	1
ddao/CORP.QUALYS.COM	1

### MAC OS



Unmanaged Assets ▾

Last 30 Days ▾

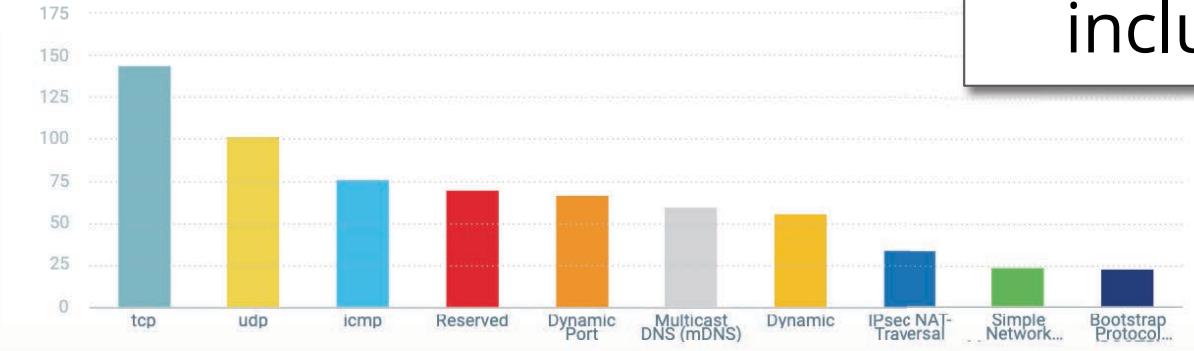
POLYCOM 34

SMARTPHONES

HARDWARE MANUFACTURER COUNT

Apple	259
Xiaomi	174
Unidentified	114
Samsung	108
OnePlus	62
Lenovo	47
Huawei	24

TOP NETWORK SERVICE



tcp	145
udp	100
icmp	75
Reserved	65
Dynamic Port	60
Multicast DNS (mDNS)	55
Dynamic	50
IPsec NAT-Traversal	30
Simple Network...	20
Bootstrap Protocol...	20

SMART WATCHES

Introducing Cloud Agent for Android and Apple iOS mobile devices included in VMDR

Qualys.

AI

DEMO

# Asset Inventory

Software Normalization + Catalog  
VM Dashboard and Searching



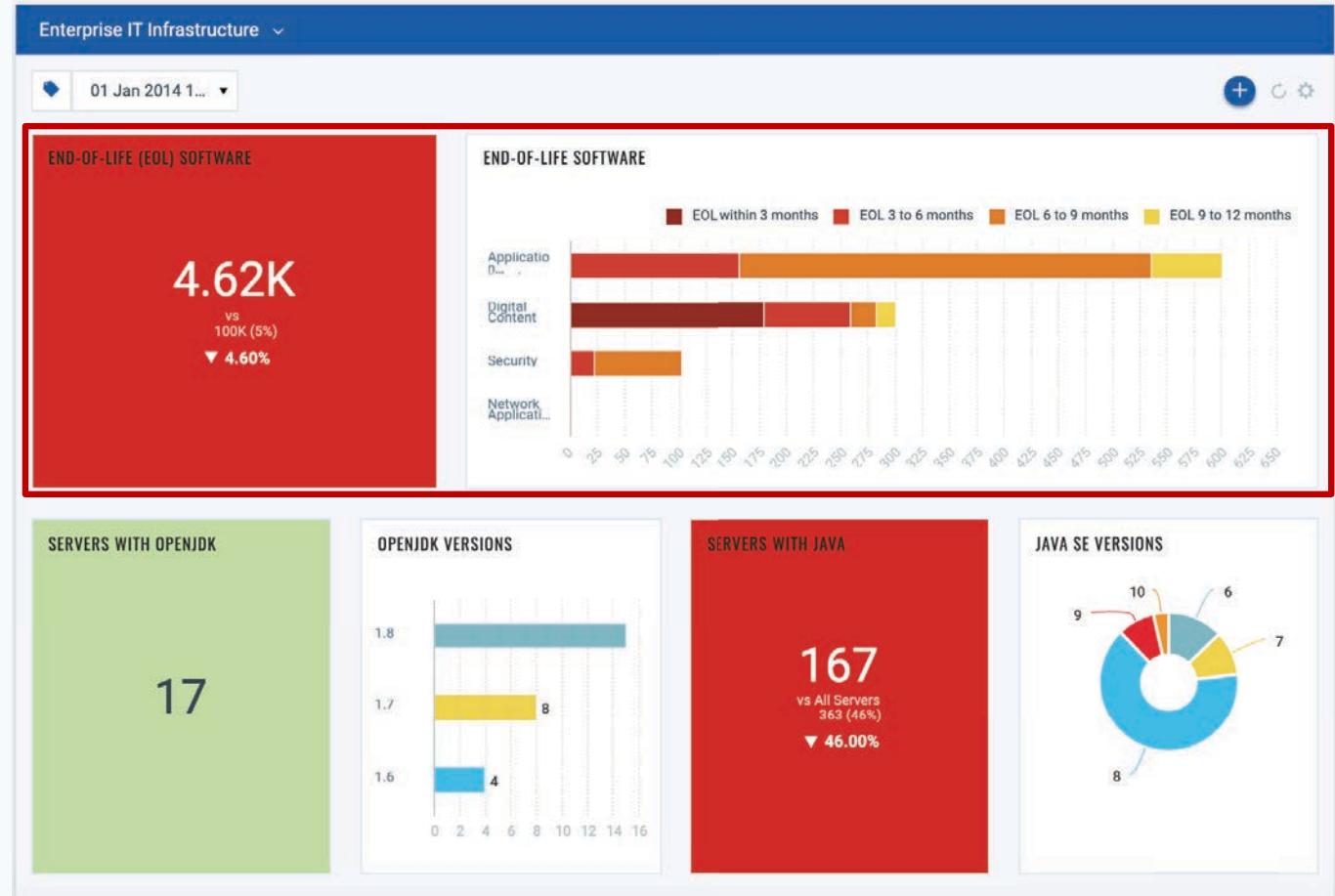
Enhance VMDR  
with additional  
Asset Inventory  
add-on capabilities

# Hardware and Software Lifecycle (EOL/EOS)

Current and Future  
EOL and EOS

Make remediation  
decisions based on  
current and future  
EOL status

Sunset vs. Patching



# Asset Inventory CMDB Sync

Use Qualys VMDR sensors for asset discovery (scanner, agent, cloud, container, mobile device, more)

Continuous sync for enriched asset data into ServiceNow CMDB (certified for 3 last releases)

Assets are automatically mapped to Configuration Item (CI) Classes



Toggle Navigator cmd + n

List and Form View cmd + h

Tagged Documents cmd + t

All Bookmarks

Home

Filter

Add content

### Qualys Overview

Change Layout

**Synced Qualys Assets**  
**2,486**

**Approved Qualys Assets**  
**2,483**

**Pending Qualys Assets**  
**0**

**Failed Qualys Assets**  
**0**

**Asset Categories**

Category	Asset Count
Notebook	1000
Server Load Balancer	350
Unidentified	300
Virtual Machine	150
Network Security ...	50
Unknown	10
Other	10

**OS Distribution**

OS Type	Percentage
Windows	47.21%
Linux	16.45%
Mac	15.28%
Others	21.06%

**EOL Operating Systems**

Operating System	Asset Count
Microsoft Windows...	10
Windows Embedded...	5
Windows 2012 Data...	5
Windows 95 11.6.1...	5
CentOS 6.10	350
Others	5

**Application Categories**

Category	Count
App Scheduled Jobs	700
Transform Map	100

**Application Publishers**

Publisher	Percentage
Microsoft	50%
Oracle	40%
IBM	10%

**Database Distribution**

Database	Count
MySQL	80

**Qualys Asset Inventory CMDB Sync**

- ★ [Overview](#)
- ▼ [Configuration](#)
  - ★ [Properties](#)
  - ★ [API Sources](#)
  - ★ [Schedules](#)
- [Sync](#)
- ▼ [Advanced](#)
  - ★ [App Scheduled Jobs](#)
  - ★ [Transform Map](#)
- ▼ [Support](#)
  - ★ [README](#)
  - ★ [Application Log](#)

# New: Software Usage for Patching... or Uninstall

Installed Software

Search Last 30 days ▾

RELEASE	INSTALLED ON
3.1.0.101	-
11.0.14393.2007	Jan 15, 2018
84.4.170	Jan 20, 2019
1.2.3	Jun 7, 2018
5.6.7	Oct 19, 2018
8.110.14393.2906	Jan 15, 2018
4.10.14393.2999	Jan 15, 2018

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Dropbox

Type: Application	Category: Storage / Backup and...	License Category: Commercial
Publisher: Dropbox	Product: Dropbox	Edition: -
Market Version: 84	Version: 84.4	Update: 84.4.170
Architecture: 64-bit	Component: -	Language: English
Install Path: C:/Program Files...	Install Date: Jan 20, 2019	Last Use Date: Nov 10, 2019
Lifecycle Stage: EOL (Extended Support)		
GA: Oct 30, 2019	EOL (Estimated): Nov 14, 2019	EOS (Estimated): Nov 14, 2019

# Summary and Take-Aways

Great Security Programs start with Great Asset Inventory

Use the included Qualys VMDR sensors for asset discovery across all asset types for your hybrid IT environment

Always up-to-date normalized view with catalog attributes gives asset context to VM programs

Enhance VMDR with additional Asset Inventory capabilities: EOL/EOS Lifecycle, CMDB Sync, Software Usage



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# Thank You

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